

QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report Consistency test

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	26-Apr-2019
Test Date	5-May-2019

SL. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	22	20	10	7.5	5.5

Results: Standard Consistency of Cement: 30.50%

Note:

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Test Report

Fineness test

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	26-Apr-2019
Test Date	5-May-2019

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	2.9	2.85
3	Percentage retained (%)	2.9	2.85
4	Average Percentage retained (%)	2.875	

Results: Residue of cement is: 2.9%

Comments: Maximum allowable residue by mass for ordinary portland cement is 10%

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report Soundness test

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	26-Apr-2019
Date	5-May-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	14	13	13
3	Difference or expansion	3	3	2
4	Average Differences or Expansion in mm	2.67		

Results: Difference in Expansion of Cement: 2.67mm

Comments: Maximum allowable Expansion of cement is 10mm.

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Test Report Compressive strength test

Project Name	Improvements to Drains and Roads in Salihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H. Rev. V.
Material	Cement
Sample No	1
Sample Collected Date	26-Apr-2019
Test Date	24-May-2019

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (mm ²)	Compressive Strength (N/mm ²)	Average Sample (n/mm ²)
1	43	28	-	0.842	70.6x70.6x70.6	2287.0	227	4984.36	45.54	45.84
2	43	28	-	0.815	70.6x70.6x70.6	2316	230	4984.36	46.14	

Results: 28-days Compressive strength of cement is 45.84N/mm²

Comments: 28-days Compressive strength of cement should not be less than 43 N/mm²

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Test Report
Gradation test

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Sridhar Y R
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Sample Collected Date	26-Apr-2019
Test Date	5-May-2019

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	15	7.50	7.50	92.50	90-100	
3	2.36 mm	25	12.50	20.00	80.00	75-100	
4	1.18 mm	15	7.50	27.50	72.50	55-90	
5	600 μ	51	25.50	53.00	47.00	35-59	
6	300 μ	77	38.50	91.50	8.50	8-30	
7	150 μ	8	4.00	95.50	4.50	0-10	

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Test Report
Water absorption test

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Sridhar Y R
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	26-Apr-2019
Test Date	5-May-2019

Sl. No.	Particulars	Computation s	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in water	W_2 g	2021	2024	
3	Weight of Saturated Aggregate in water	$W_s = W_2 - W_1$	1260	1261	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2056	2049	
5	Weight of water equal to the Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Weight of Oven dried Aggregate	W_4 g	2017	2020	
7	Specific Gravity	$W_4 / (W_3 - W_s)$	2.53	2.56	2.55
8	Apparent Specific Gravity	$W_4 / (W_4 - W_s)$	2.66	2.66	2.66
9	Water Absorption	$(W_4 - W_3) * 100 / W_4$	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Sample Collected Date	12-May-2019
Date	19-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	sive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	20	7	6.87	150*150*150	2035.56	323	0.0225	14.36	14.19	14.21
2	20	7	6.94	150*150*150	2056.30	315	0.0225	14.00		
3	20	7	6.80	150*150*150	2014.81	320	0.0225	14.22		
4	20	7	7.15	150*150*150	2118.52	313	0.0225	13.91	14.24	
5	20	7	6.91	150*150*150	2047.41	327	0.0225	14.53		
6	20	7	6.88	150*150*150	2038.52	321	0.0225	14.27		

Results: 7-days Compressive strength of cement is

14.21 N/mm²

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka
Sub Division	
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	3
Sample Collected	12-May-2019
Date	19-May-2019

Date

19-May-2017

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	slve Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	7	6.96	150*150*150	2062.22	325	0.0225	14.44	14.28	14.30
2	20	7	7.03	150*150*150	2082.96	317	0.0225	14.09		
3	20	7	6.89	150*150*150	2041.48	322	0.0225	14.31		
4	20	7	7.24	150*150*150	2145.19	315	0.0225	14.00	14.33	
5	20	7	7.00	150*150*150	2074.07	329	0.0225	14.62		
6	20	7	6.97	150*150*150	2065.19	323	0.0225	14.36		

Results: 7-days Compressive strength of cement is

14.30 N/mm²

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Sarvihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka
Sub Division	
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Sample Collected	29-May-2019
Date	5-Jun-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength	Avg. Sample Strength	Avg. Strength
1	20	7	7.06	150*150*150	2091.85	327	0.0225	14.53	14.37	14.39
2	20	7	7.13	150*150*150	2112.59	319	0.0225	14.18		
3	20	7	6.99	150*150*150	2071.11	324	0.0225	14.40		
4	20	7	7.34	150*150*150	2174.81	317	0.0225	14.09	14.41	
5	20	7	7.10	150*150*150	2103.70	331	0.0225	14.71		
6	20	7	7.07	150*150*150	2094.81	325	0.0225	14.44		

Results: 7-days Compressive strength of cement is

14.39 N/mm²

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka
Sub Division	
Ident	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Sample No	1
Sample Collected	12-May-2019
Date	
Test Date	9-Jun-2019

Test Date		7 Jun 2017								
Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	sive Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	28	7.90	150*150*150	2340.74	522	0.0225	23.20	23.36	23.36
2	20	28	7.85	150*150*150	2325.93	527	0.0225	23.42		
3	20	28	7.72	150*150*150	2287.41	528	0.0225	23.47		
4	20	28	7.93	150*150*150	2349.63	532	0.0225	23.64	23.35	
5	20	28	7.89	150*150*150	2337.78	519	0.0225	23.07		
6	20	28	7.87	150*150*150	2331.85	525	0.0225	23.33		

Results: 28-days Compressive strength of cement is

23.36 N/mm²

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Sample Collected Date	29-May-2019
Test Date	25-Jun-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	ive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	20	28	8.19	150*150*150	2426.67	528	0.0225	23.47	23.63	23.62
2	20	28	8.14	150*150*150	2411.85	533	0.0225	23.69		
3	20	28	8.01	150*150*150	2373.33	534	0.0225	23.73		
4	20	28	8.22	150*150*150	2435.56	538	0.0225	23.91	23.61	
5	20	28	8.18	150*150*150	2423.70	525	0.0225	23.33		
6	20	28	8.16	150*150*150	2417.78	531	0.0225	23.60		

Results: 28-days Compressive strength of cement is 23.62 N/mm²

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	100mm Slab
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Precast Slab
Sample No	1
Sample Collected Date	4-Jun-2019
Test Date	11-Jun-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	Compressive Strength	Avg. Sample Strength	Avg. Strength
1	20	7	6.81	150*150*150	2017.78	323	0.0225	14.36	14.18	14.28
2	20	7	6.84	150*150*150	2026.67	318	0.0225	14.13		
3	20	7	6.67	150*150*150	1976.30	316	0.0225	14.04		
4	20	7	7.05	150*150*150	2088.89	318	0.0225	14.13	14.39	
5	20	7	6.81	150*150*150	2017.78	322	0.0225	14.31		
6	20	7	6.81	150*150*150	2017.78	331	0.0225	14.71		

Results: 7-days Compressive strength of cement is

14.28 N/mm²

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	Pavement Concret-M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Sample Collected Date	24-Jun-2019
Date	1-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	sive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	20	7	7.04	150*150*150	2085.93	324	0.0225	14.40	14.34	14.42
2	20	7	7.15	150*150*150	2118.52	317	0.0225	14.09		
3	20	7	6.95	150*150*150	2059.26	327	0.0225	14.53		
4	20	7	7.32	150*150*150	2168.89	313	0.0225	13.91	14.50	
5	20	7	7.15	150*150*150	2118.52	331	0.0225	14.71		
6	20	7	6.98	150*150*150	2068.15	335	0.0225	14.89		

Results: 7-days Compressive strength of cement is

14.42 N/mm²

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Test Report Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka
Sub Division	
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	Pavement Concret-M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Sample Collected	24-Jun-2019
Date	1-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	Compressive Strength	Avg. Sample Strength	Avg. Strength
1	20	7	7.24	150*150*150	2145.19	328	0.0225	14.58	14.52	14.60
2	20	7	7.35	150*150*150	2177.78	321	0.0225	14.27		
3	20	7	7.15	150*150*150	2118.52	331	0.0225	14.71		
4	20	7	7.52	150*150*150	2228.15	317	0.0225	14.09	14.68	
5	20	7	7.35	150*150*150	2177.78	335	0.0225	14.89		
6	20	7	7.18	150*150*150	2127.41	339	0.0225	15.07		

Results: 7-days Compressive strength of cement is

14.60 N/mm²

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Test Report Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	Pavement Concret-M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Sample Collected	24-Jun-2019
Date	22-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	sive Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	28	8.11	150*150*150	2402.96	525.00	0.0225	23.33	23.61	23.61
2	20	28	8.15	150*150*150	2414.81	532.00	0.0225	23.64		
3	20	28	8.05	150*150*150	2385.19	537.00	0.0225	23.87		
4	20	28	8.21	150*150*150	2432.59	535.00	0.0225	23.78		
5	20	28	8.13	150*150*150	2408.89	530.00	0.0225	23.56	23.60	
6	20	28	8.11	150*150*150	2402.96	528.00	0.0225	23.47		

Results: 28-days Compressive strength of cement is

23.61 N/mm²

Note:

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- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka
Sub Division	
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	Pavement Concret-M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	3
Sample Collected Date	24-Jun-2019
Date	22-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	sive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	20	28	8.21	150*150*150	2432.59	525	0.0225	23.34	23.62	23.61
2	20	28	8.25	150*150*150	2444.44	532	0.0225	23.65		
3	20	28	8.15	150*150*150	2414.81	537	0.0225	23.87		
4	20	28	8.31	150*150*150	2462.22	535	0.0225	23.78	23.60	
5	20	28	8.23	150*150*150	2438.52	530	0.0225	23.56		
6	20	28	8.21	150*150*150	2432.59	528	0.0225	23.47		

Results: 28-days Compressive strength of cement is

 23.61 N/mm²
Note:

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Test Report Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	Pavement Concret-M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Sample Collected Date	24-Jun-2019
Date	22-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	ive Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	28	8.31	150*150*150	2462.22	527	0.0225	23.43	23.71	23.70
2	20	28	8.35	150*150*150	2474.07	534	0.0225	23.74		
3	20	28	8.25	150*150*150	2444.44	539	0.0225	23.96		
4	20	28	8.41	150*150*150	2491.85	537	0.0225	23.87		
5	20	28	8.33	150*150*150	2468.15	532	0.0225	23.87	23.69	
6	20	28	8.31	150*150*150	2462.22	530	0.0225	23.65		
								23.56		

Results: 28-days Compressive strength of cement is

23.70 N/mm²

Note:

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Test Report
Concrete Compressive strength

Project Name	Improvements to Drains and Roads in Saivihara Layout and Surrounding areas in Herohalli in Ward No.02 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-04/2019-2020
Mix Type	Pavement Concret-M20
Contractor	Sri. Sridhar Y R
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	5
Sample Collected Date	24-Jun-2019
Date	22-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	ive Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	28.00	8.40	150*150*150	2488.89	529	0.0225	23.52	23.80	23.79
2	20	28.00	8.44	150*150*150	2500.74	536	0.0225	23.83		
3	20	28.00	8.34	150*150*150	2471.11	541	0.0225	24.05		
4	20	28.00	8.50	150*150*150	2518.52	539	0.0225	23.96	23.78	
5	20	28.00	8.42	150*150*150	2494.81	534	0.0225	23.74		
6	20	28.00	8.40	150*150*150	2488.89	532	0.0225	23.65		

Results: 28-days Compressive strength of cement is23.79 N/mm²**Note:**

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